

CLAIMS

1. A slotless permanent magnet rotary electric machinery, comprising a substantially cylindrical rotor incorporated with a permanent magnet, a stator iron core surrounding the rotor; and a coil provided between the rotor and stator core in a spaced relationship with respect to the rotor, characterized by that:
- the coil comprises a plurality of turns which are shifted from one turn to another along the circumferential direction in a mutually overlapping manner; and
- the coil turns are formed by a conductor having an elongated cross section, a long axis of the cross section extending in a radial direction.
2. A slotless permanent magnet rotary electric machinery according to claim 1, wherein the conductor is provided with a rectangular cross section having a long side and short side, and the long side extends in a radial direction.
3. A slotless permanent magnet rotary electric machinery according to claim 2, wherein the conductor consists of a Litz wire conductor.
4. A slotless permanent magnet rotary electric machinery according to claim 2, wherein the rectangular cross section of the conductor are rounded at the four corners thereof.
5. A method of making a coil for a slotless permanent magnet rotary electric machinery, the coil including a plurality of turns of a flat conductor having a rectangular cross section including a long side and short side, the turns being formed

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